

Title (en)
ROTARY WING AIRCRAFT PROXIMITY WARNING SYSTEM WITH A GEOGRAPHICALLY BASED AVOIDANCE SYSTEM

Title (de)
ANNÄHERUNGSWARNSYSTEM FÜR DREHFLÜGELFLUGZEUG MIT EINEM VERMEIDUNGSSYSTEM AUF GEOGRAFISCHER BASIS

Title (fr)
SYSTÈME AVERTISSEUR DE PROXIMITÉ D'AÉRONEF À VOILURE TOURNANTE AVEC UN SYSTÈME D'ÉVITEMENT BASÉ SUR LA GÉOGRAPHIE

Publication
EP 2126513 B1 20120215 (EN)

Application
EP 07875012 A 20071204

Priority
• US 2007086331 W 20071204
• US 60826706 A 20061208

Abstract (en)
[origin: US2008140267A1] A safety enhancement warning system includes an avoidance system which communicates with a multiple of geographical positional systems. A geographic algorithm of the avoidance system utilizes a recursive algorithmic to determine if the aircraft will enter a sensitive area. If the aircraft distance to a sensitive area decreases below a predefined minimum threshold, then an audible and/or visual warning is issued. For certain sensitive areas, aircraft RF emissions are silenced or reduced in power when the predetermined minimum threshold breaches the sensitive area. The use of the avoidance system enables usage of relatively inexpensive UWB radar for the proximity sensor suite to assure avoidance of interference with particular delicate instruments and thereby meet regulations such as those propagated by the FCC.

IPC 8 full level
G01C 21/00 (2006.01); G01S 13/935 (2020.01)

CPC (source: EP US)
G01C 5/005 (2013.01 - EP US); G05D 1/0858 (2024.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2008140267 A1 20080612; US 7598888 B2 20091006; AT E545843 T1 20120315; EP 2126513 A2 20091202; EP 2126513 B1 20120215; WO 2008147460 A2 20081204; WO 2008147460 A3 20090402

DOCDB simple family (application)
US 60826706 A 20061208; AT 07875012 T 20071204; EP 07875012 A 20071204; US 2007086331 W 20071204